

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** July 12, 2005

**Inspector:** Don Ukers

**Location:** 345kV XLPE Component

**Storm/**

**Rain Event:** Between 0.27-0.48" of rain was recorded on 7/6 with an additional 0.58"-0.71" on 7/12 as reported by NOAA and depending on location.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Access Roads and Adjacent Roadways	-The jack and bore of East Swamp Brook is accessed from the roadway. A crane pad is in place in order to install the sheet piling in the stream without disturbing the bank 7/12/06.	- Equipment is located on both sides of the bore as well as in the adjacent ballpark during the day. 7/12/06.	- Not applicable (N/A)
	- No obvious sediment tracking was present on the roadway but silt fence is up along some ruts noted in the ballpark yard. 7/5-7/12/06	- The adjacent area will be restored when access is complete. Monitor tracking on the roadway. 6/20-7/12/06	-Silt fence is in place at the ballpark
	- Rt 58 was down to one lane to accommodate some work here. 7/12	- None at this time. 7/12/06	- N/A
	-Several vaults continue to be accessed, including near Plumtree Substation and Whittlesey Dr. 7/12/06	- None at this time. 7/12/06	-N/A
	- The gully/ washout along the slope of Whittlesey Dr. was repaired again the day of the last inspection.	-If the vegetation can establish this time before significant rains, the area should stabilize. 7/12/06	- The washout was repaired a second time.

Areas of Inspection	Observation	Recommended Action	Corrective Action
	<p>7/12/06</p> <p>-Timber swamp mats were in place at the Hoyts Hill access off Rt. 58. This is not for 345kV XLPE work.6/20-7/12/06</p>	<p>- 345kV XLPE crews will restore the area and remove stone when applicable, following the access needs. Do not access without mats in place. 7/12/06</p>	<p>- Needs attention when work is complete.</p>
Trench and foundation construction	<p>- Work at the jack and bore of East Swamp Brook located at the intersection of Plumtrees Rd. Walnut Hill Rd. and Whittlesey Dr. has resumed. The crane remains in place on the pad on the stream bank. The sheet piling was shifted to the receiving half of the stream and the previously enclosed instream area was restored. 7/12/06</p>	<p>-Monitor the work carefully to avoid turbidity or any fill. The stream appeared to be in good condition and the stream bed was restored with river stone. 7/12/06</p>	<p>-The first portion of the stream was restored</p>
	<p>- The bore is completed across the 1<sup>st</sup> portion of the stream and is making progress towards the receiving pit. 7/12/06</p>	<p>- The fill is removed and the bed restored and the new section is cordoned off with sheet piling. 7/12/06</p>	<p>- N/A at this time</p>
	<p>- Sandbags are in place across the previously disturbed portion of the opposite bank. 7/12/06</p>	<p>- Both banks are reinforced well. 7/12/06</p>	<p>- N/A at this time</p>
	<p>- Repair of guardrails and miscellaneous tasks along Rt 58 remain. Some active work was noted here at the time of inspection 7/12/06</p> <p>-Vaults were being accessed to pull cable between several locations. 5/25-7/12/06</p>	<p>- None at this time. 7/12/06</p> <p>- None at this time. 7/12/06</p>	<p>-N/A</p> <p>- N/A</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	- Silt fence in in good shape at vault 2A&B. Adjacent areas are well restored and vegetative cover was establishing. 7/12/06	- Continue to monitor but the restoration efforts were good and grass is growing. 7/12/06	-Vegetative growth was noted
<b>Jack and Bore</b>	-Work continues here. The entire opposite bank is lined and reinforced with sandbags and a boom remains across the stream in an attempt to filter turbidity. 7/12/06	-The stream was still running fairly clear at the time. 7/12/06  Restore the banks with erosion control mats when work is complete. 7/12/06	-N/A at the time
	- The sheet piling has been shifted to the 2 <sup>nd</sup> half of the stream. The gravel fill was removed and the bed restored. 7/12/06	- Continue to monitor. Clean river stone was placed back into the stream bed. Remove any excess gravel when the banks are restored 7/12/06	- N/A at the time
	-Silt fence is up along the access to the stream in the ballpark entrance due to some tracks from the equipment. 7/5-7/12/06	- None at this time. The area will be restored when work is complete. 7/5-7/12/06	- N/A
<b>Whittlesey Dr and Judd Ave</b>	- The gully/ washout along the slope of Whittlesey Dr. was repaired again and haybales are in place 7/12/06	-Continue to monitor. If vegetation can establish before the next significant storm it should stabilize. 7/12/06	- Restoration efforts were made again.
<b>Rt. 58</b>	- Areas along Rt 58 had been restored, mulched and seeded. 7/12/06	- Continue to monitor and repair as new work finishes up. 7/12/06	- N/A
<b>Hoyts Hill</b>	- Mats remain the base of slope at Hoyts Hill. Access is needed for other contractors pulling wire. 345kV crews will be restoring this area when access is complete. 7/5-7/12/06	-When access needs are complete, restore and allow wetland vegetation to return. All stone and gravel will have to be removed carefully and then high organic content soil should be placed here. Do not fill over the gravel. 7/5-7/12/06	-N/A until access is done.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Inland Wetland and Watercourse encroachment and mitigation	-Work in East Swamp Brook continues under ACOE clearance. Sheet piling has been shifted to the receiving pit bank. The previous diversion area in the streambed has been restored with river stone. 7/12/06	- Work in the stream should be carefully monitored. It is currently in good condition. When the area is restored, make sure all excess gravel is removed and the banks are restored with additional controls such as erosion mats/blankets 7/12/06	-N/A at this time
State species of concern, threatened and endangered species	-The D&M plan and clearance letter states that state-listed species are not located in this work area. -The wood turtle was noted at Plumtree Substation during the 5/25/06 inspection.	- N/A  -345kV XLPE crews should also be performing daily walkthroughs before moving equipment while working in the vault. Be vigilant when moving equipment. 4/26-7/12/06	-N/A  - Crews were informed
Vegetative clearing limits (including trees to save or danger trees noted)	-The washout adjacent to the sidewalk at the Whittlesey Dr slope was repaired again. 7/12/06  - Other restored areas had noticeable grass growth. Roadside areas along Rt 58 were restored. 7/12/06  - Vault 2 remains well restored and vegetative cover was returning to the adjacent areas. 7/12/06  - The area near vault 5 and adjacent to the ballpark remain to be restored. 7/12/06	-See erosion control section. 7/12/06  - Continue to monitor for final stabilization. 7/12/06  - The area is in good condition. 7/12/06  - These areas will be restored when access needs are complete. 7/5-7/12/06	-Area was repaired  - N/A  - N/A  - N/A until access needs are complete
Dewatering	- The dewatering system from well points at the jack and bore had resumed in order to keep the trench workable. 6/28-7/12/06	- Continue to use all necessary controls. 6/7-7/12/06	- N/A

Areas of Inspection	Observation	Recommended Action	Corrective Action
Blasting	- No blasting is occurring at this work area.	- None at this time.	-N/A
Soils	- Soil had been handled appropriately during the Rt 58 trenchwork and all work sites were clean and contained. 7/12/06	- None at this time. 7/12/06	- N/A
	- Topsoil remains stripped and stockpiled at the contractor yard. 3/15-7/12/06	- None at this time. Controls are well installed here. 3/15-7/12/06	-N/A
Spills and Material Storage Areas	- Equipment should be stored overnight up to 100ft or as far from resource areas where practicable. 1/19-7/12/06  - Environmentally safe, biodegradable hydraulic oil was being used in the generator on site of the jack and bore. 7/12/06	- Report spills immediately, even if they are being controlled. - Any fuels and agents not in use should be covered and stored before leaving for the day. - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.	-N/A at the time

**Next likely scheduled inspection:**

Wednesday July 19, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:**

Diana Walden for Don Ukers



345kV XLPE: Photo shows the vault 2 area, well restored with erosion controls moved closer to the vault manholes. Vegetative cover is establishing in the adjacent areas. 7/12/06



Photo on the left shows some of the disturbance caused by accessing the stream work. However, silt fence remains in place and the area will be restored following work. Photo on the right shows a view of the bore pad area. 7/12/06





Photo shows the sandbags in place on the opposite streambank where the sheet piling had previously been. The sheet piling was shifted and the instream area was restored. 7/12/06



Photo shows a view of the sheet piling at the receiving pit side of the stream. 7/12/06